FIG.1

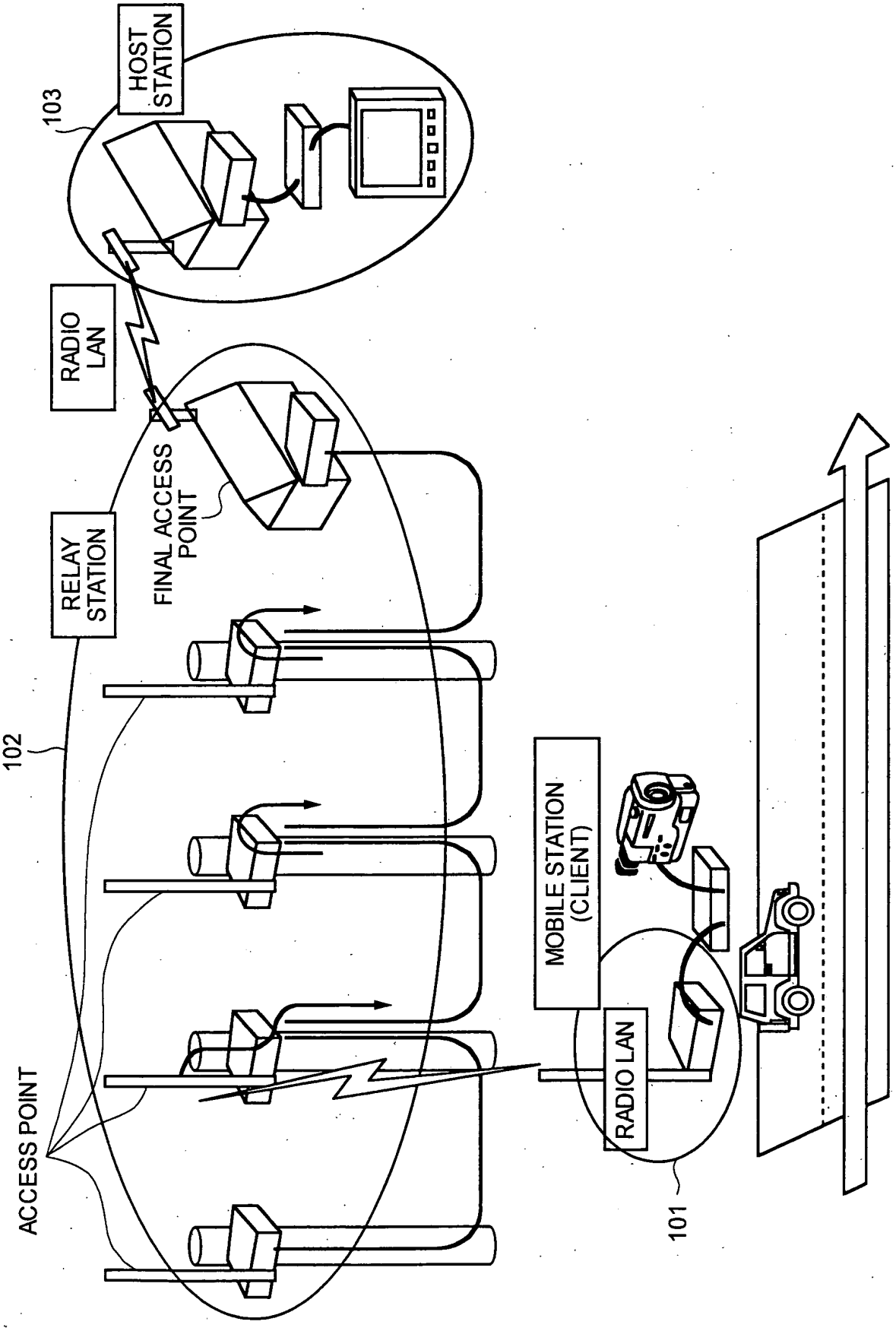

HOST STATION
103
RADIO LAN
FINAL ACCESS POINT
RELAY STATION
102
ACCESS POINT
MOBILE STATION (CLIENT)
RADIO LAN
101

FIG.2

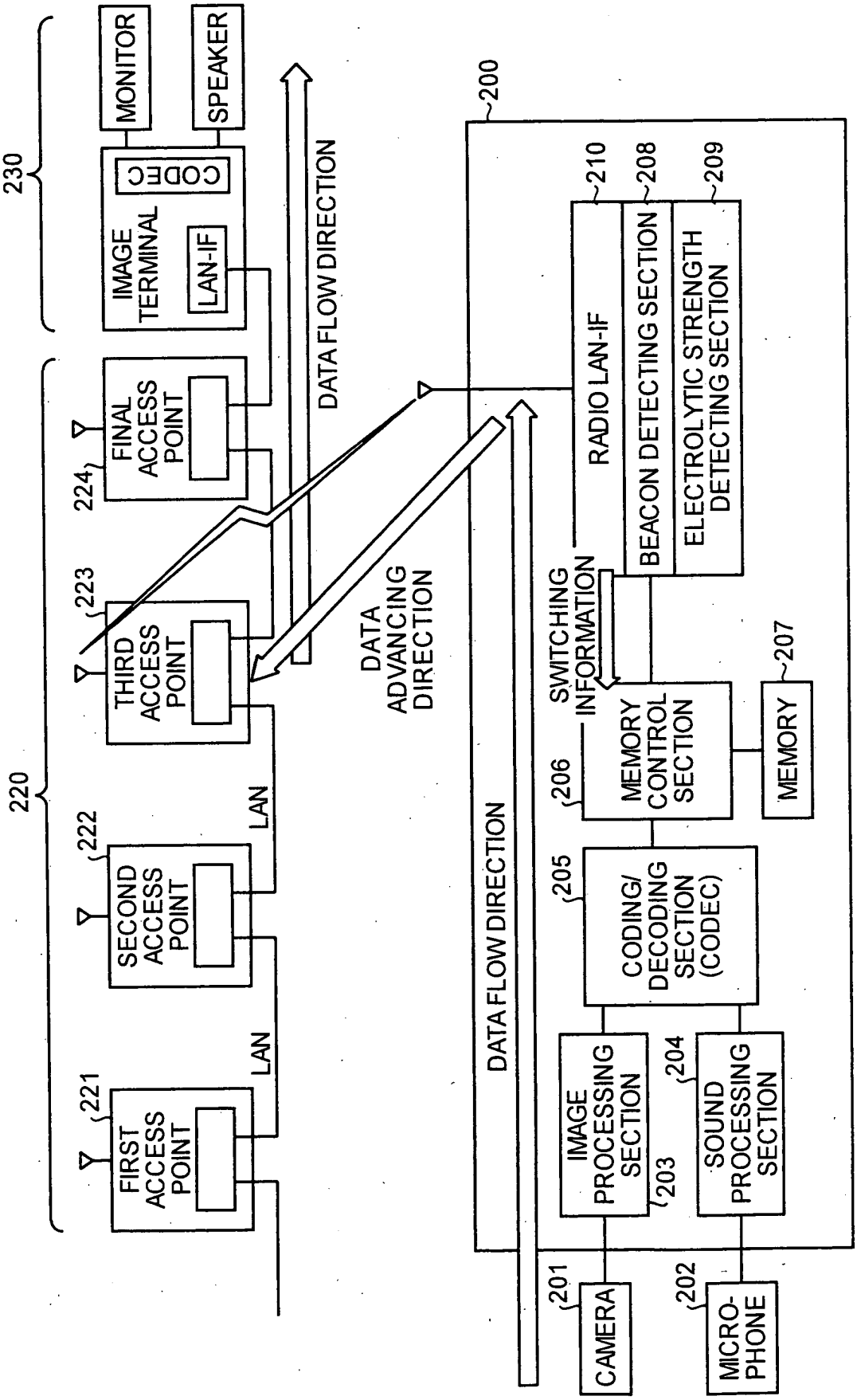

200
210
208
209
RADIO LAN-IF
BEACON DETECTING SECTION
ELECTROLYTIC STRENGTH DETECTING SECTION
SWITCHING INFORMATION
206
MEMORY CONTROL SECTION
207
MEMORY
205
CODING/ DECODING SECTION (CODEC)
IMAGE PROCESSING SECTION
203
SOUND PROCESSING SECTION
204
201
CAMERA
202
MICRO-PHONE
DATA FLOW DIRECTION
DATA ADVANCING DIRECTION
220
221
FIRST ACCESS POINT
222
SECOND ACCESS POINT
223
THIRD ACCESS POINT
224
FINAL ACCESS POINT
LAN
LAN
DATA FLOW DIRECTION
230
IMAGE TERMINAL
LAN-IF
CODEC
MONITOR
SPEAKER

FIG.3

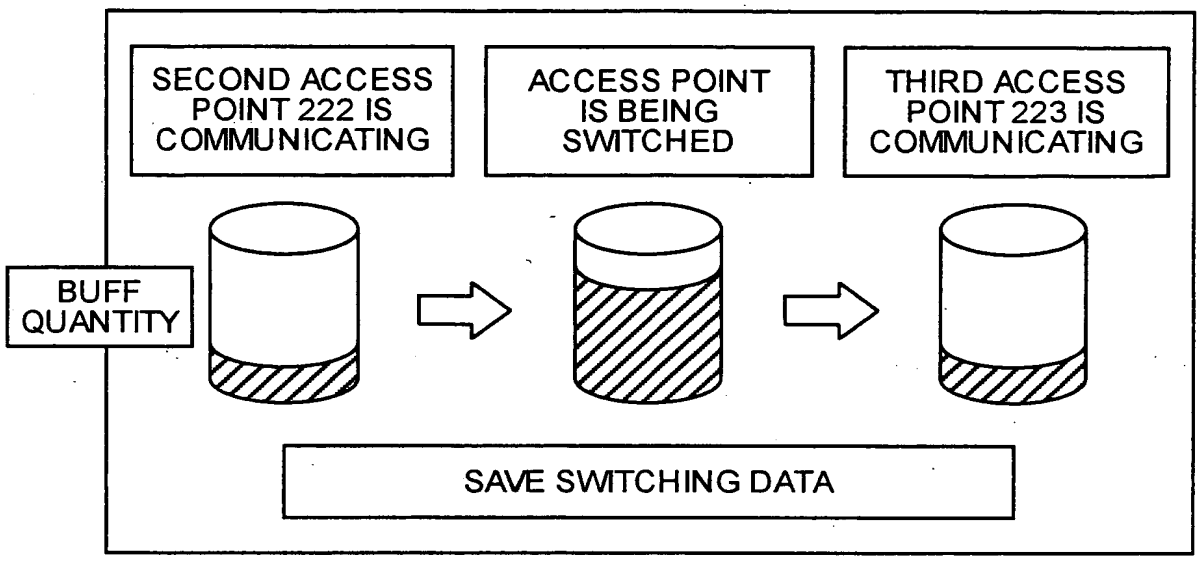

SECOND ACCESS POINT 222 IS COMMUNICATING
ACCESS POINT IS BEING SWITCHED
THIRD ACCESS POINT 223 IS COMMUNICATING
BUFF QUANTITY
SAVE SWITCHING DATA

FIG.4

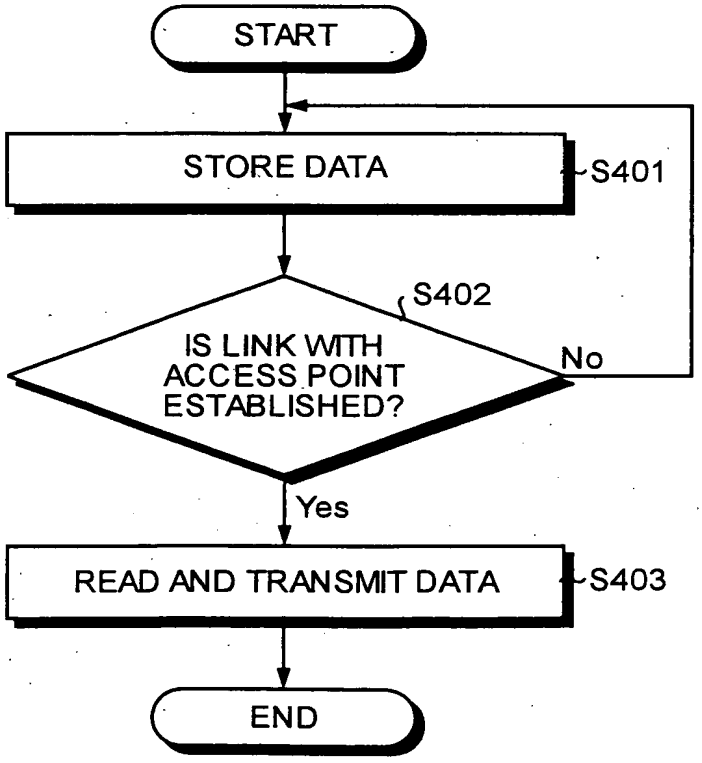

START
STORE DATA
S401
S402
IS LINK WITH ACCESS POINT ESTABLISHED?
No
Yes
READ AND TRANSMIT DATA
S403
END

FIG.5

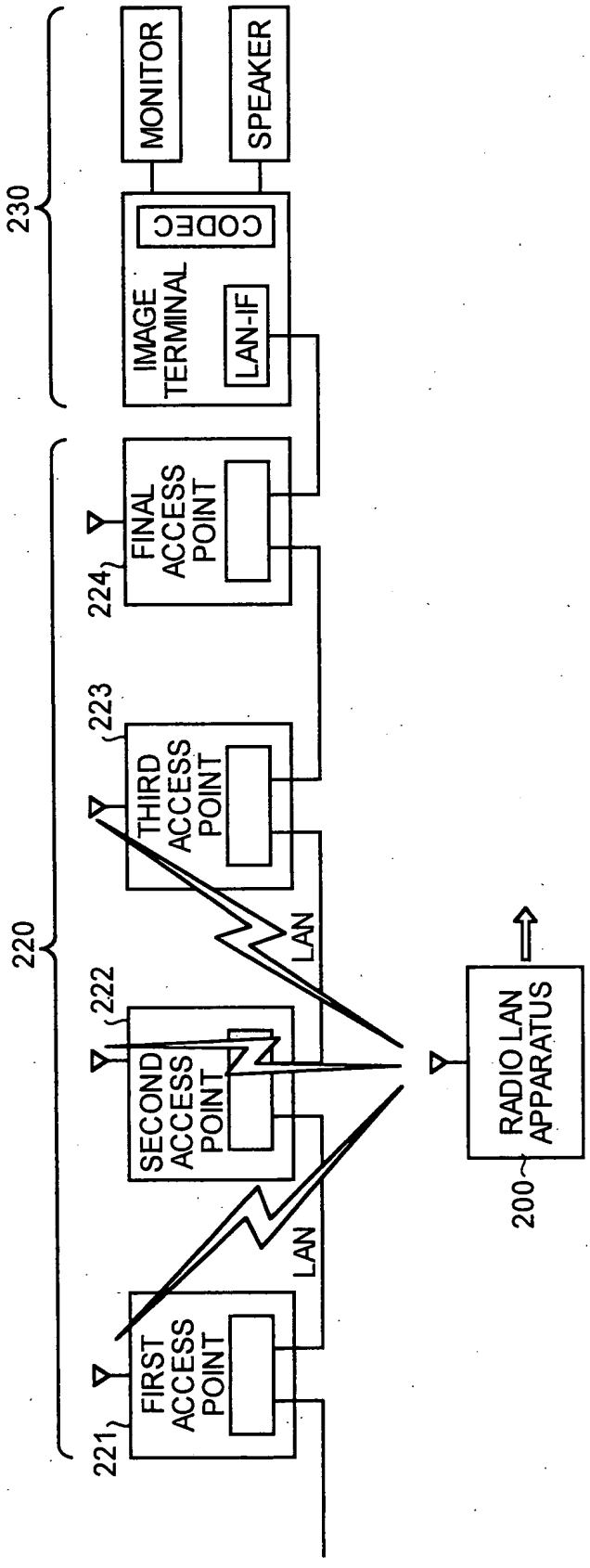

230
MONITOR
SPEAKER
CODEC
IMAGE TERMINAL
LAN-IF
220
224
FINAL ACCESS POINT
223
THIRD ACCESS POINT
222
SECOND ACCESS POINT
221
FIRST ACCESS POINT
LAN
LAN
RADIO LAN APPARATUS
200

FIG.6

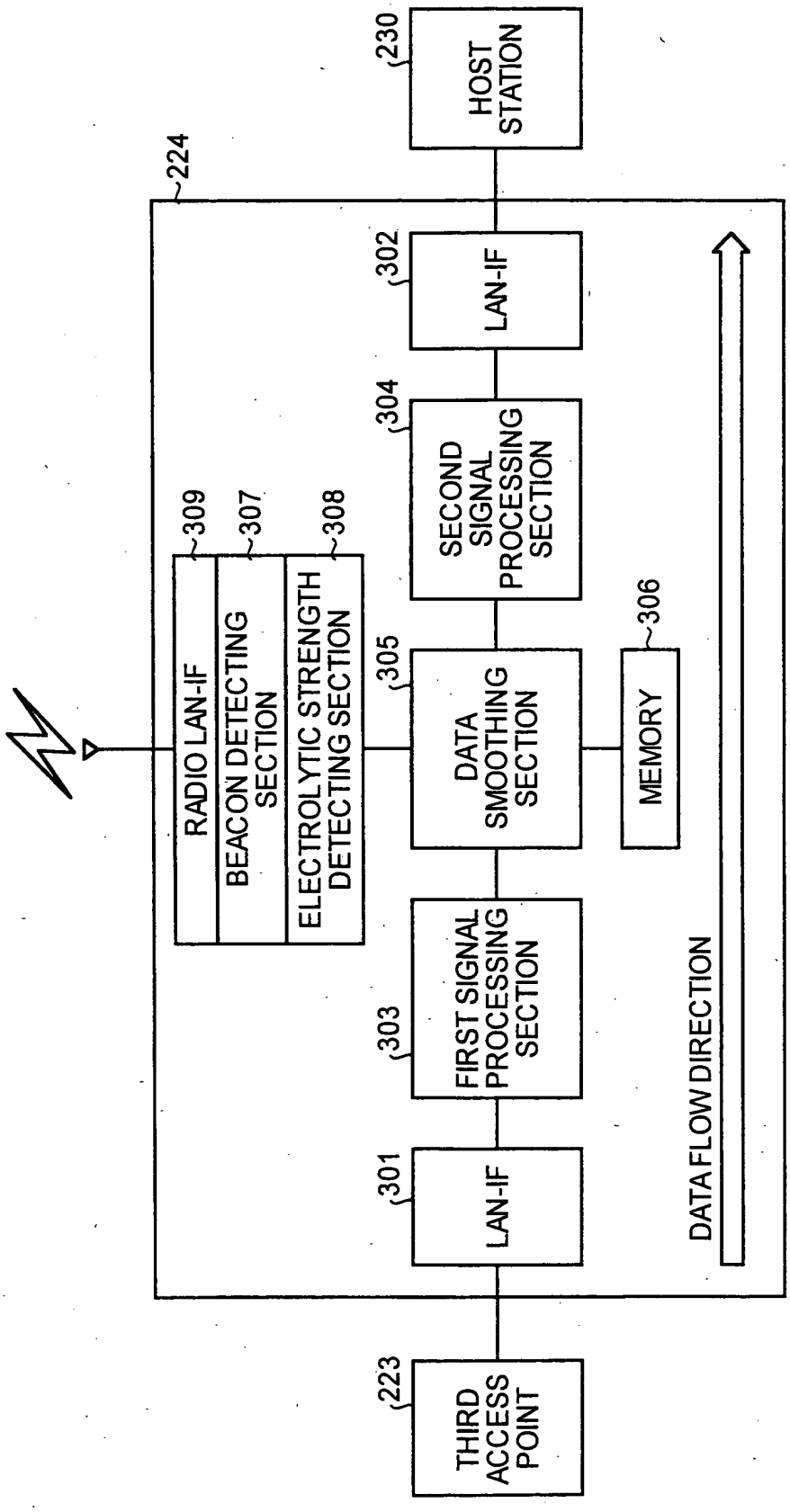

THIRD ACCESS POINT
223
LAN-IF
301
FIRST SIGNAL PROCESSING SECTION
303
DATA SMOOTHING SECTION
305
SECOND SIGNAL PROCESSING SECTION
304
LAN-IF
302
HOST STATION
230
224
RADIO LAN-IF
309
BEACON DETECTING SECTION
307
ELECTROLYTIC STRENGTH DETECTING SECTION
308
MEMORY
306
DATA FLOW DIRECTION

FIG.7

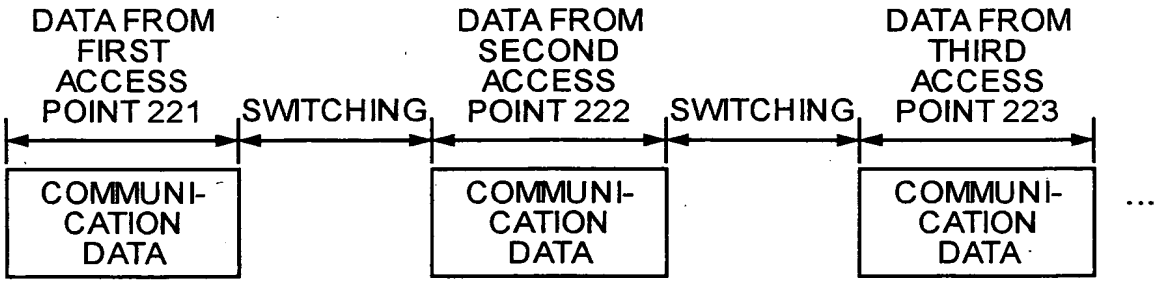


FIG.8

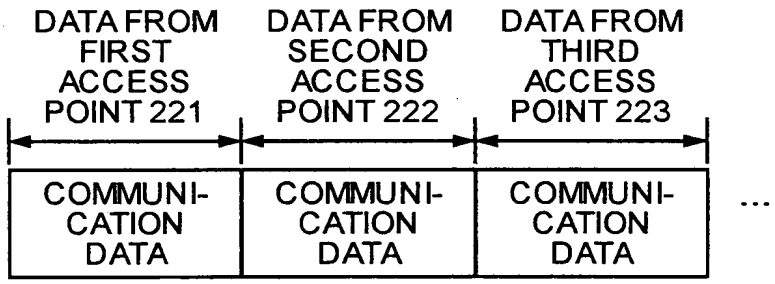


FIG.9

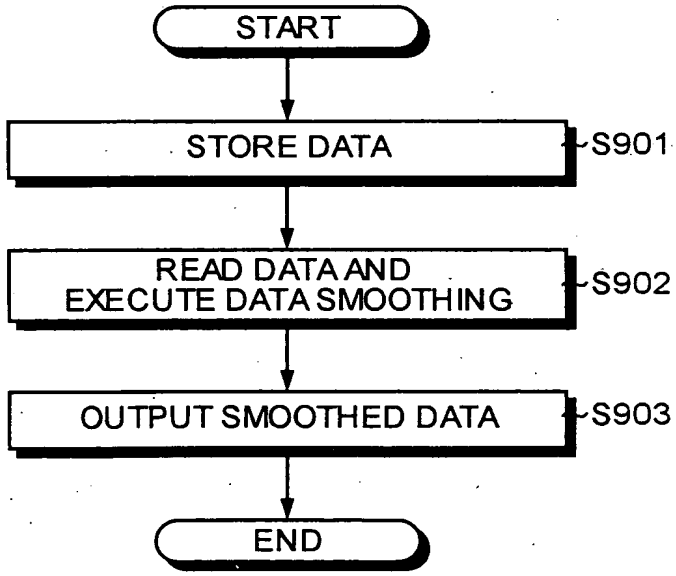


FIG.10

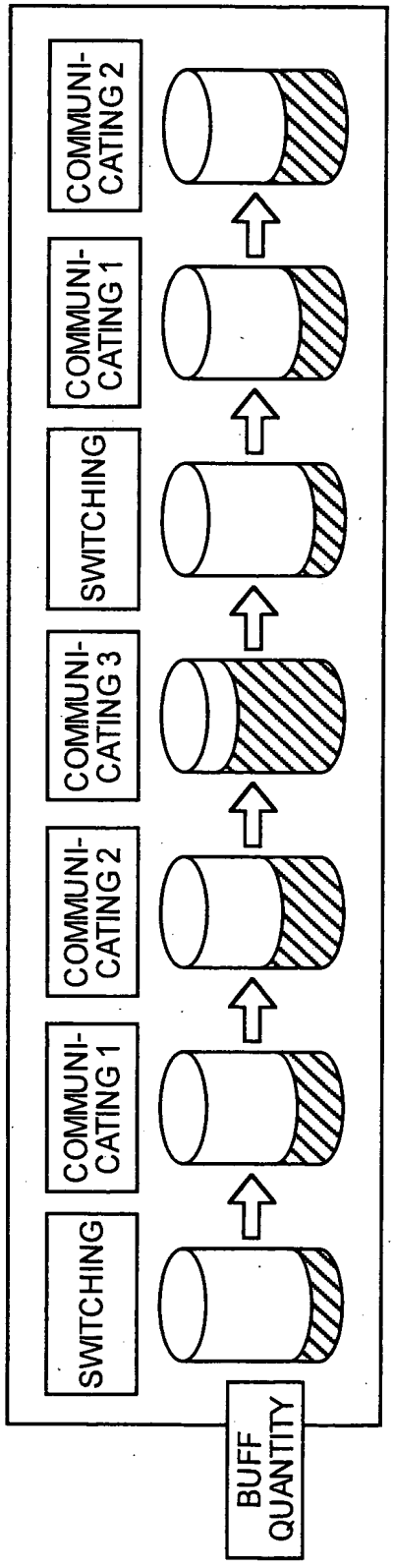

BUFF QUANTITY
SWITCHING
COMMUNI-CATING 1
COMMUNI-CATING 2
COMMUNI-CATING 3
SWITCHING
COMMUNI-CATING 1
COMMUNI-CATING 2

FIG.11

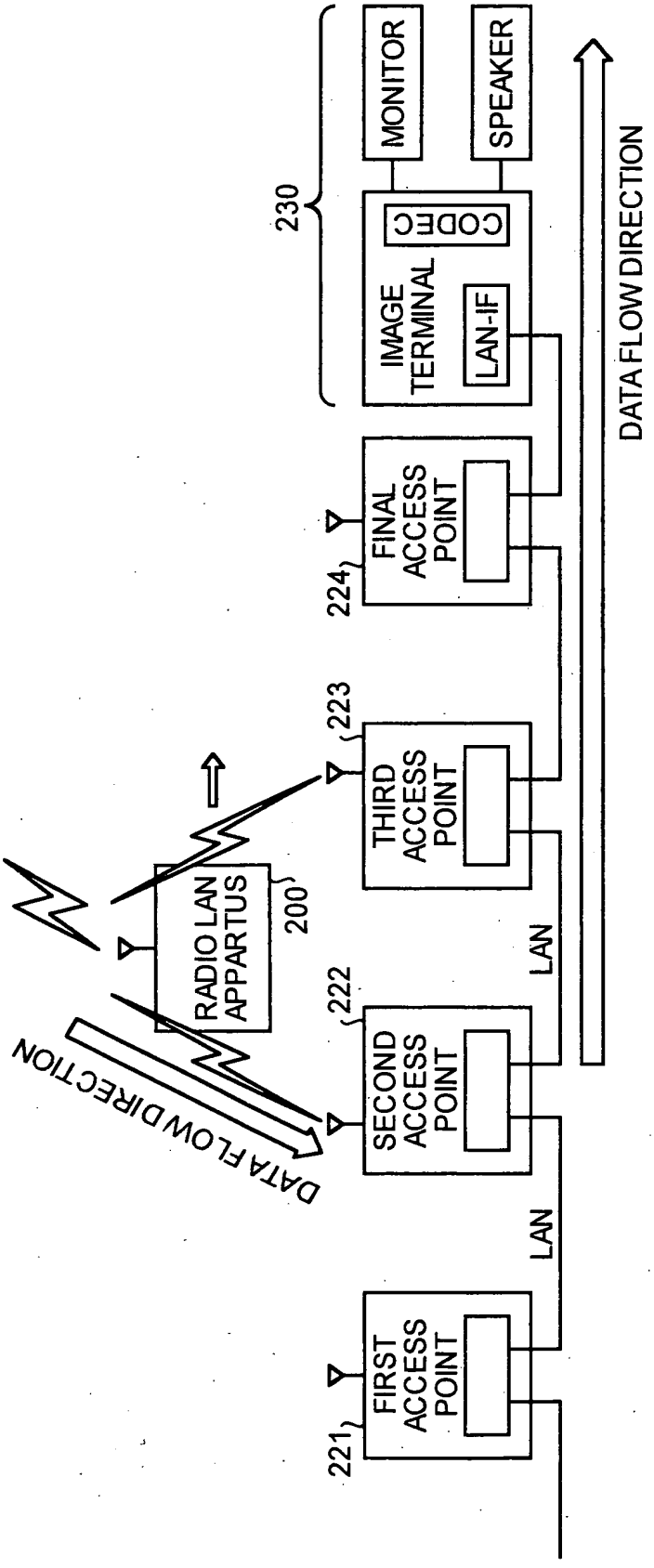

RADIO LAN APPARTUS
200
DATA FLOW DIRECTION
FIRST ACCESS POINT
221
SECOND ACCESS POINT
222
THIRD ACCESS POINT
223
FINAL ACCESS POINT
224
LAN
LAN
230
IMAGE TERMINAL
CODEC
LAN-IF
MONITOR
SPEAKER
DATA FLOW DIRECTION

FIG.12

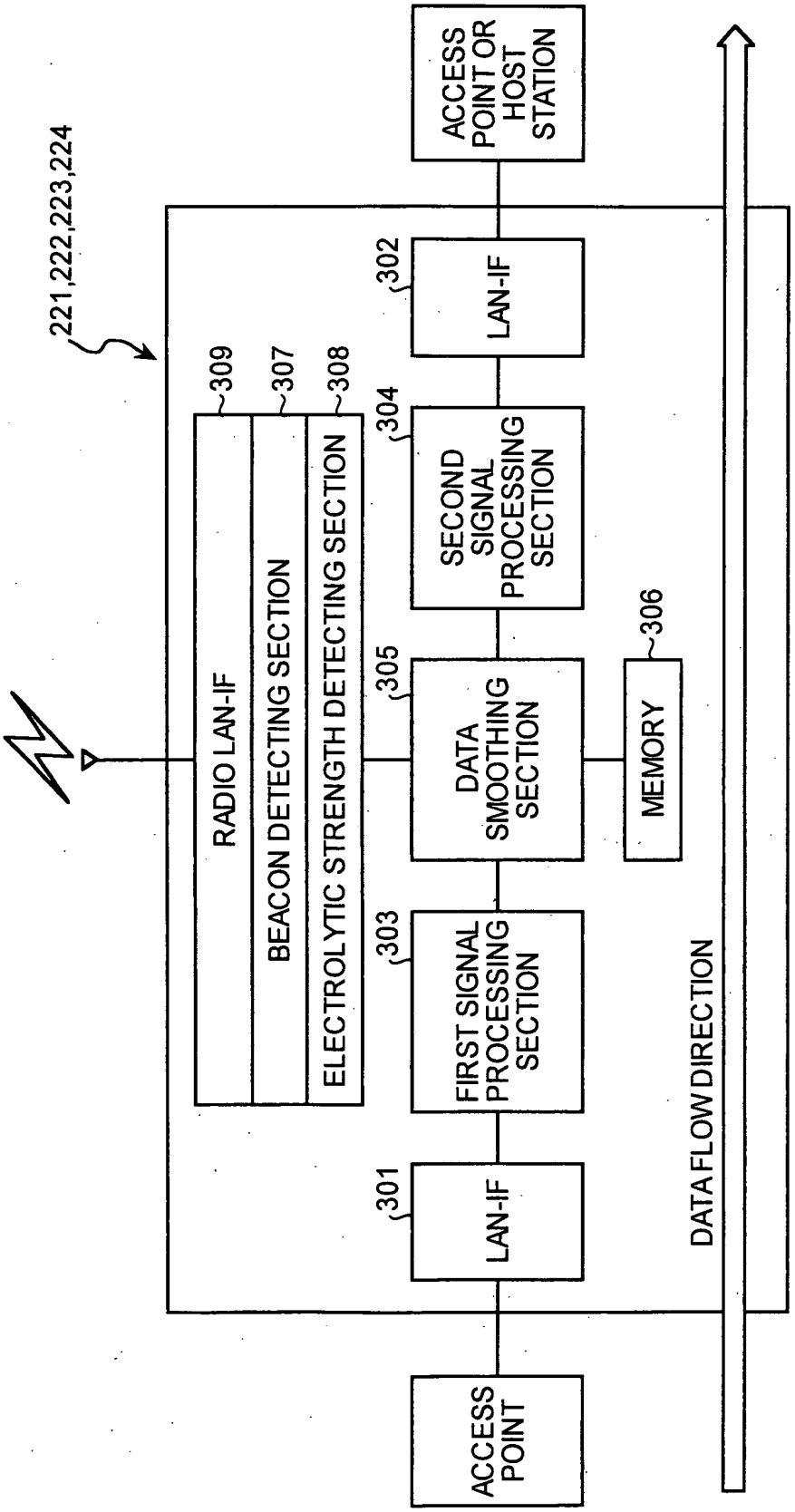

221,222,223,224
ACCESS POINT OR HOST STATION
302
LAN-IF
309
307
308
304
SECOND SIGNAL PROCESSING SECTION
RADIO LAN-IF
BEACON DETECTING SECTION
ELECTROLYTIC STRENGTH DETECTING SECTION
305
DATA SMOOTHING SECTION
306
MEMORY
303
FIRST SIGNAL PROCESSING SECTION
301
LAN-IF
ACCESS POINT
DATA FLOW DIRECTION

FIG.13

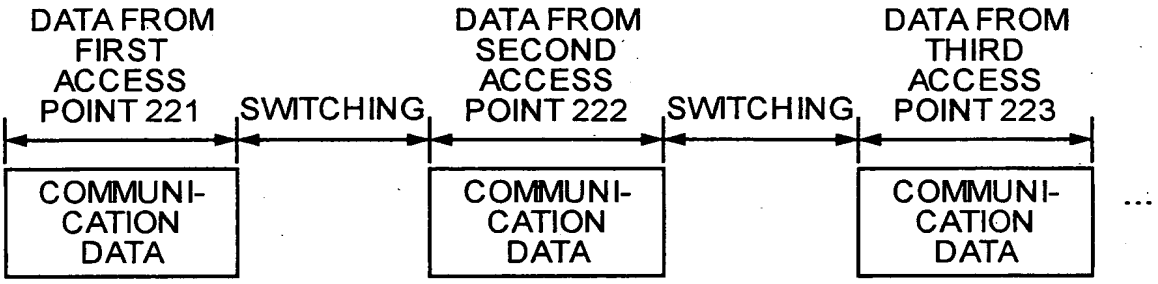

DATA FROM FIRST ACCESS POINT 221
SWITCHING
DATA FROM SECOND ACCESS POINT 222
SWITCHING
DATA FROM THIRD ACCESS POINT 223
COMMUNI-CATION DATA
COMMUNI-CATION DATA
COMMUNI-CATION DATA
...

FIG.14

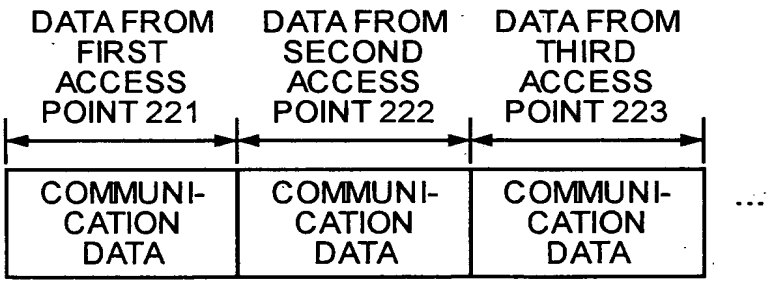

DATA FROM FIRST ACCESS POINT 221
DATA FROM SECOND ACCESS POINT 222
DATA FROM THIRD ACCESS POINT 223
COMMUNI-CATION DATA
COMMUNI-CATION DATA
COMMUNI-CATION DATA
...

FIG.15

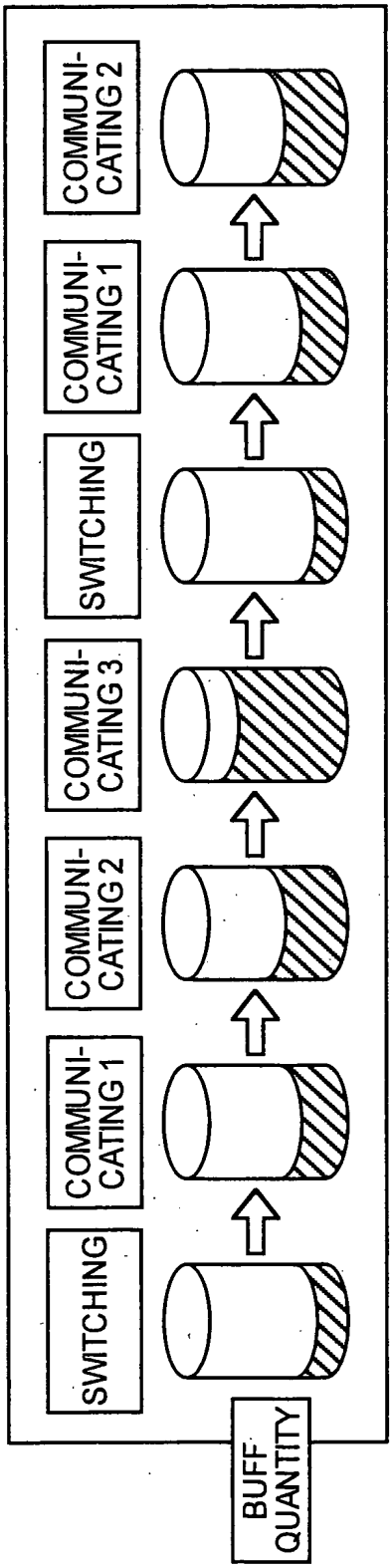

BUFF QUANTITY
SWITCHING
COMMUNI-CATING 1
COMMUNI-CATING 2
COMMUNI-CATING 3
SWITCHING
COMMUNI-CATING 1
COMMUNI-CATING 2

FIG.16

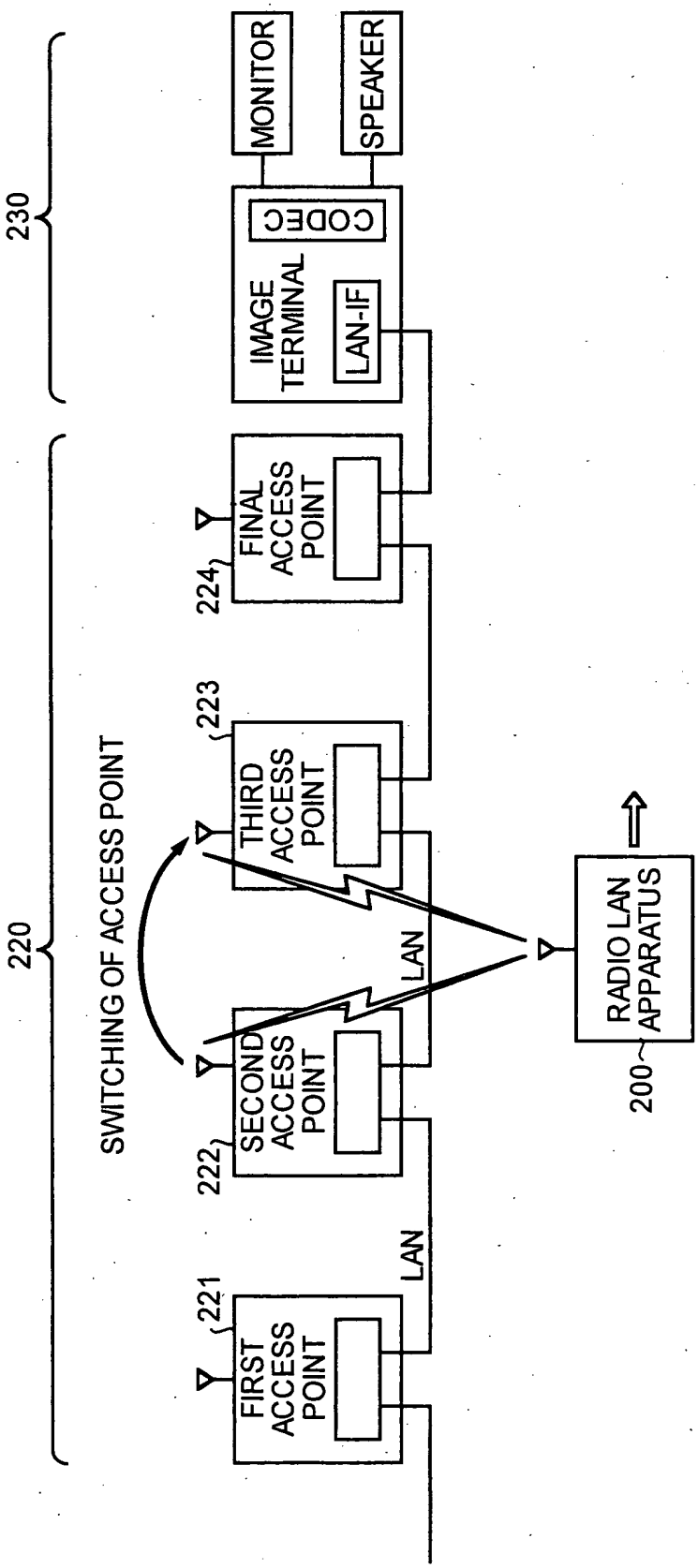

230
MONITOR
SPEAKER
IMAGE TERMINAL
CODEC
LAN-IF
220
SWITCHING OF ACCESS POINT
224
FINAL ACCESS POINT
223
THIRD ACCESS POINT
222
SECOND ACCESS POINT
221
FIRST ACCESS POINT
LAN
LAN
RADIO LAN APPARATUS
200

FIG.17

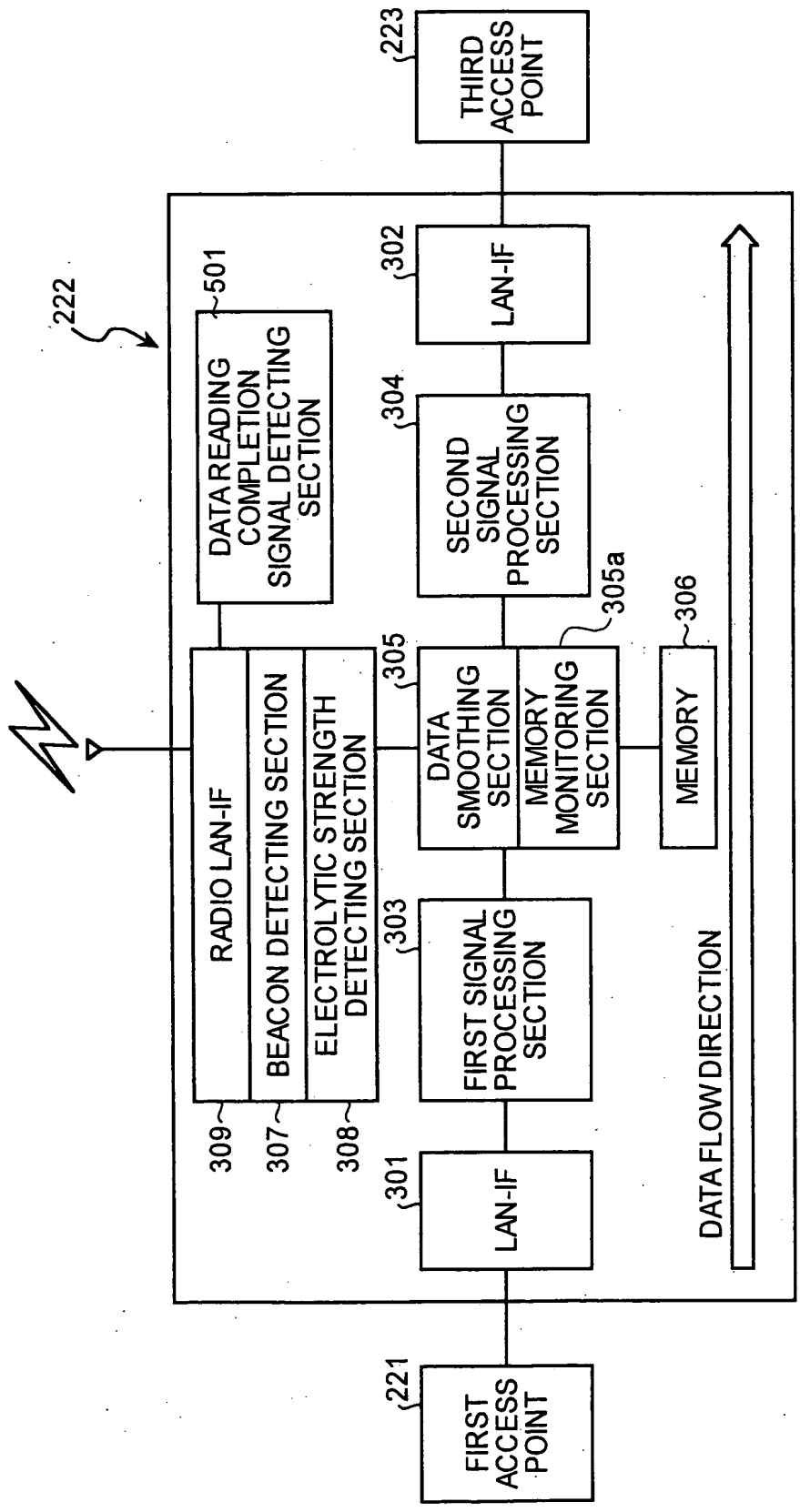

222
221
FIRST ACCESS POINT
223
THIRD ACCESS POINT
RADIO LAN-IF
309
BEACON DETECTING SECTION
307
ELECTROLYTIC STRENGTH DETECTING SECTION
308
DATA READING COMPLETION SIGNAL DETECTING SECTION
501
LAN-IF
301
FIRST SIGNAL PROCESSING SECTION
303
LAN-IF
302
SECOND SIGNAL PROCESSING SECTION
304
DATA SMOOTHING SECTION
305
MEMORY MONITORING SECTION
305a
MEMORY
306
DATA FLOW DIRECTION

FIG.18

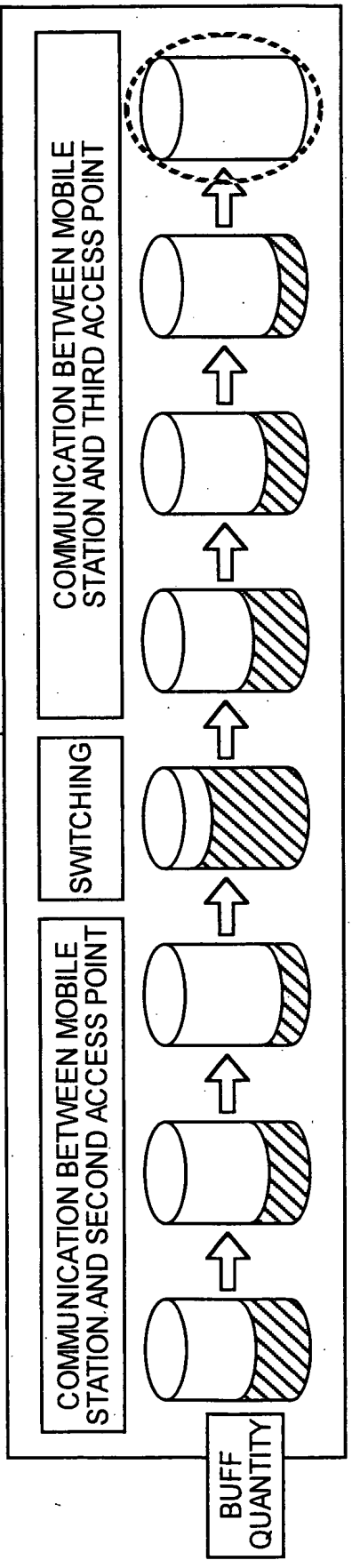

MEMORY USAGE IN SECOND ACCESS POINT 222
COMMUNICATION BETWEEN MOBILE STATION AND SECOND ACCESS POINT
SWITCHING
COMMUNICATION BETWEEN MOBILE STATION AND THIRD ACCESS POINT
BUFF QUANTITY

FIG.19

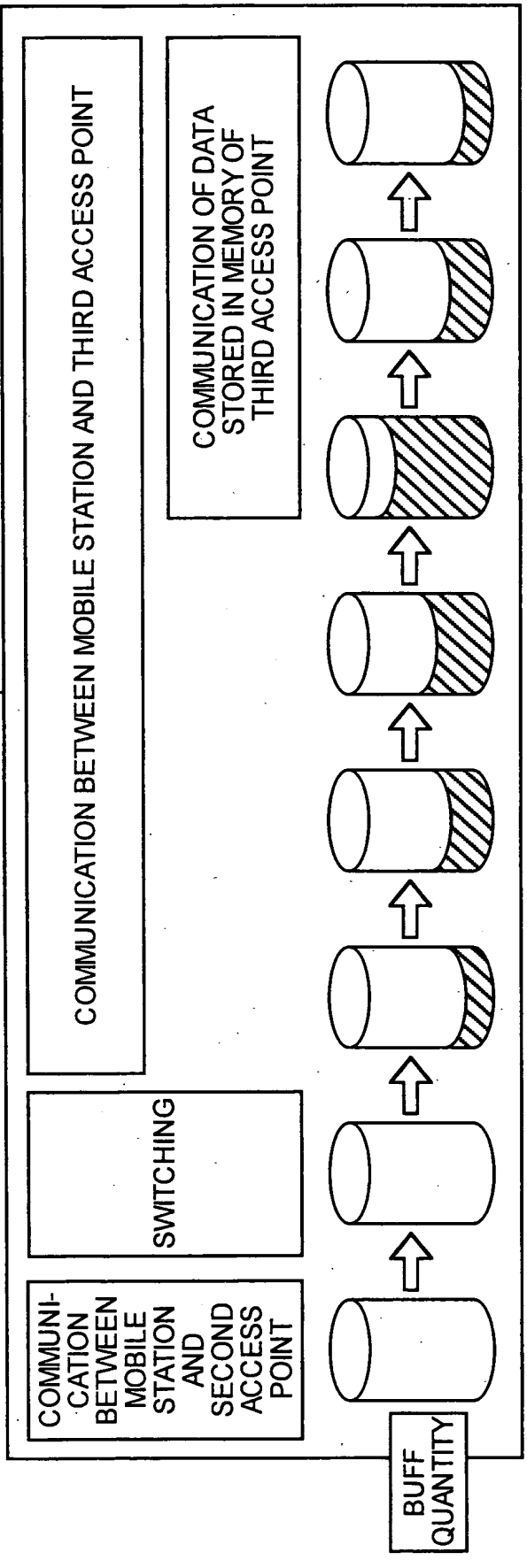

MEMORY USAGE IN THIRD ACCESS POINT 223
COMMUNI-CATION BETWEEN MOBILE STATION AND SECOND ACCESS POINT
SWITCHING
COMMUNICATION BETWEEN MOBILE STATION AND THIRD ACCESS POINT
COMMUNICATION OF DATA STORED IN MEMORY OF THIRD ACCESS POINT
BUFF QUANTITY

FIG.20

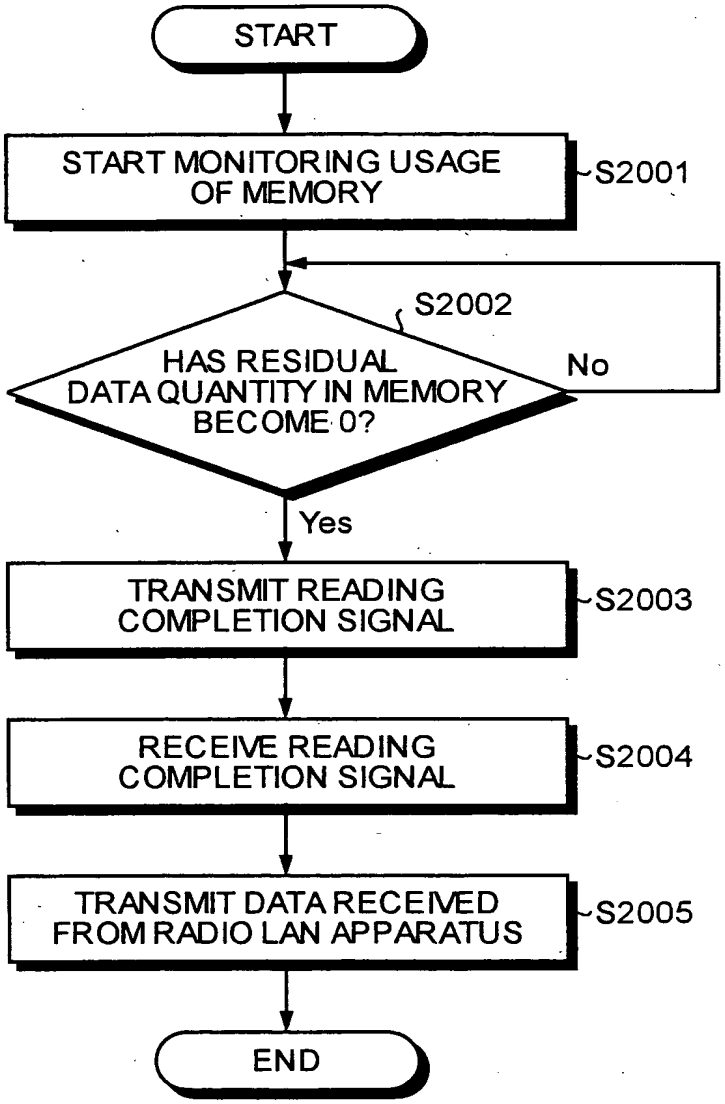

START
START MONITORING USAGE OF MEMORY
S2001
S2002
HAS RESIDUAL DATA QUANTITY IN MEMORY BECOME 0?
No
Yes
TRANSMIT READING COMPLETION SIGNAL
S2003
RECEIVE READING COMPLETION SIGNAL
S2004
TRANSMIT DATA RECEIVED FROM RADIO LAN APPARATUS
S2005
END

FIG.21

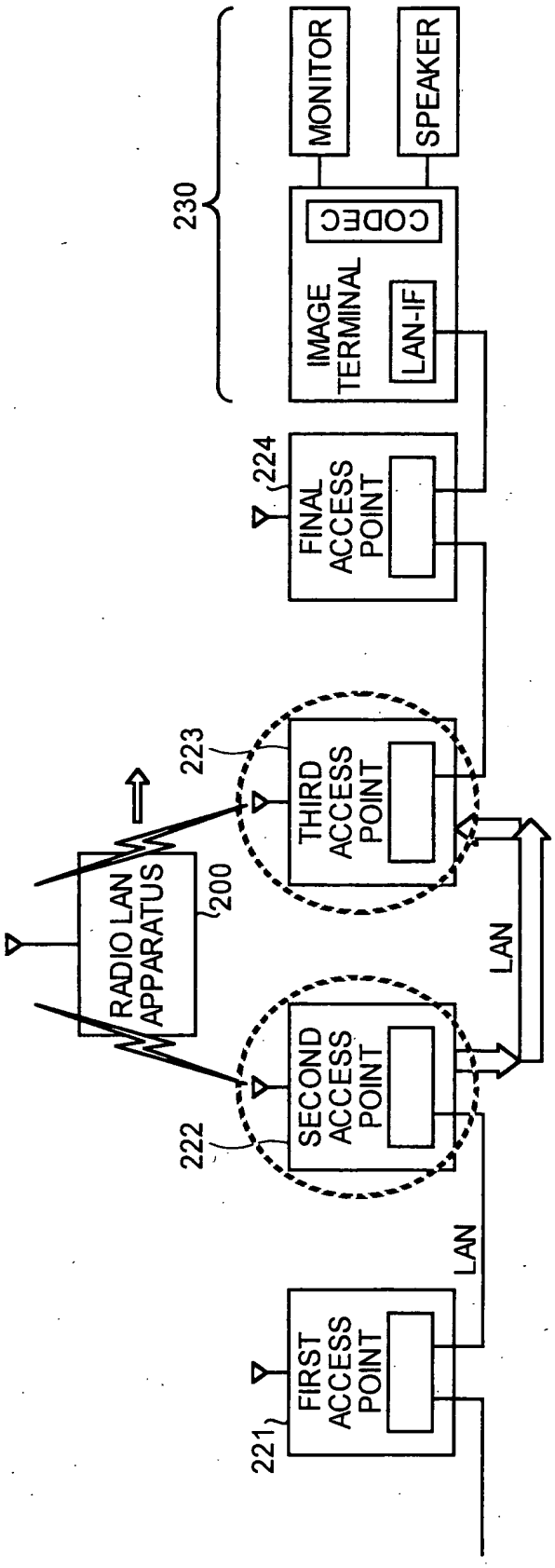

230
MONITOR
SPEAKER
IMAGE TERMINAL
CODEC
LAN-IF
224
FINAL ACCESS POINT
223
THIRD ACCESS POINT
222
SECOND ACCESS POINT
221
FIRST ACCESS POINT
RADIO LAN APPARATUS
200
LAN
LAN

FIG.22

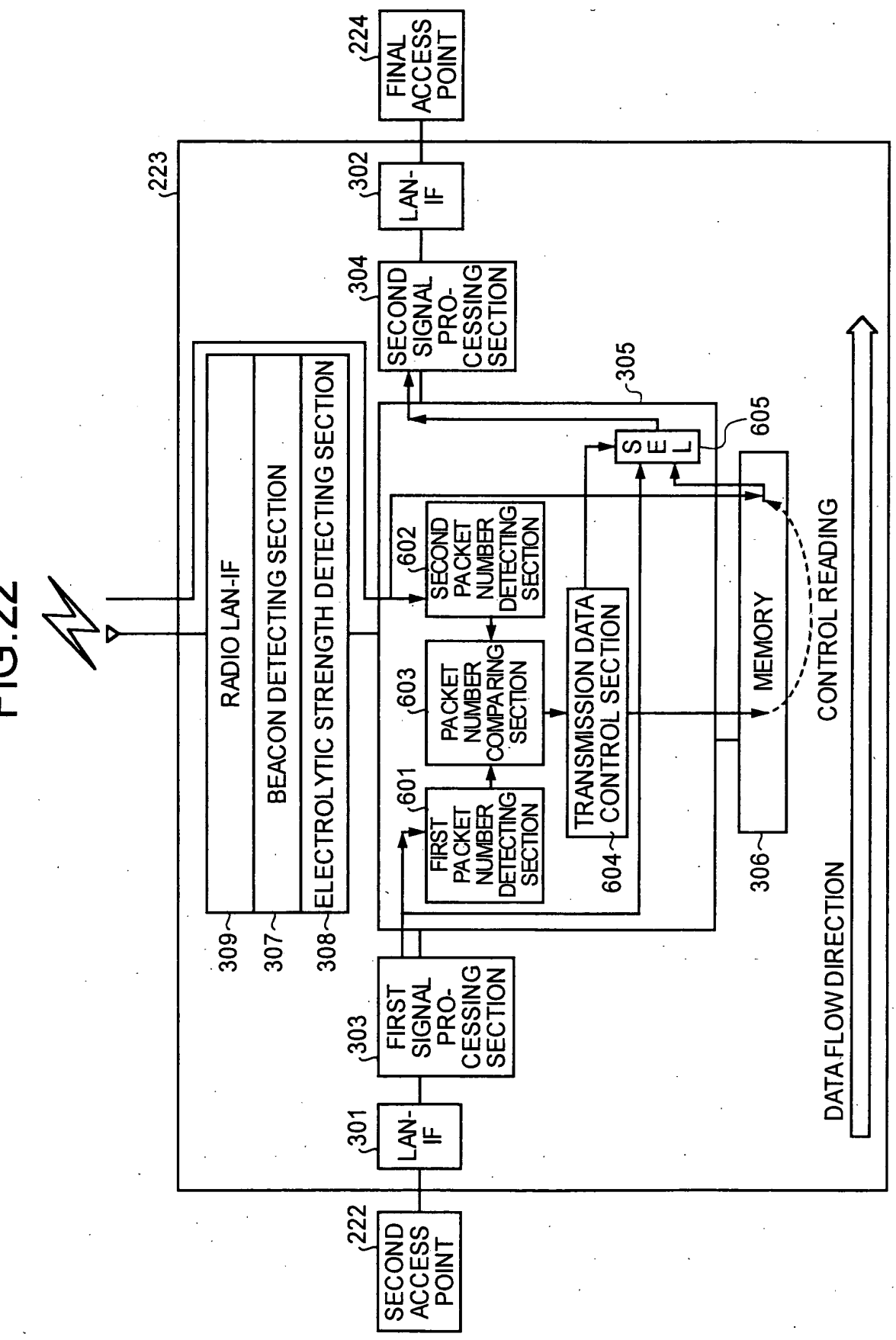

SECOND ACCESS POINT
222
LAN-IF
301
FIRST SIGNAL PRO-CESSING SECTION
303
LAN-IF
302
SECOND SIGNAL PRO-CESSING SECTION
304
FINAL ACCESS POINT
224
223
RADIO LAN-IF
309
BEACON DETECTING SECTION
307
ELECTROLYTIC STRENGTH DETECTING SECTION
308
FIRST PACKET NUMBER DETECTING SECTION
601
SECOND PACKET NUMBER DETECTING SECTION
602
PACKET NUMBER COMPARING SECTION
603
TRANSMISSION DATA CONTROL SECTION
604
305
SEL
605
MEMORY
306
CONTROL READING
DATA FLOW DIRECTION

FIG.23

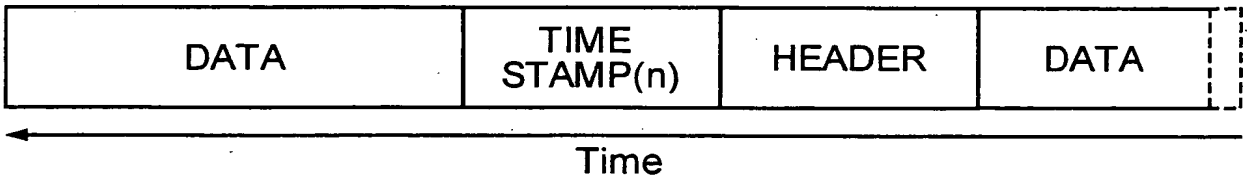

DATA
TIME STAMP(n)
HEADER
DATA
Time

FIG.24

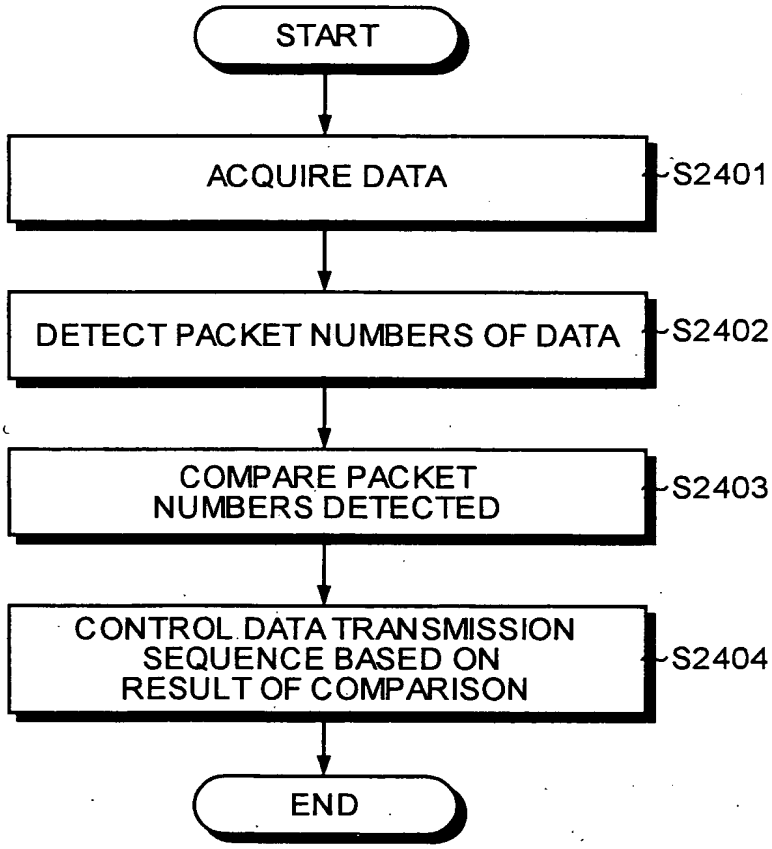

START
ACQUIRE DATA
S2401
DETECT PACKET NUMBERS OF DATA
S2402
COMPARE PACKET NUMBERS DETECTED
S2403
CONTROL DATA TRANSMISSION SEQUENCE BASED ON RESULT OF COMPARISON
S2404
END

FIG.25

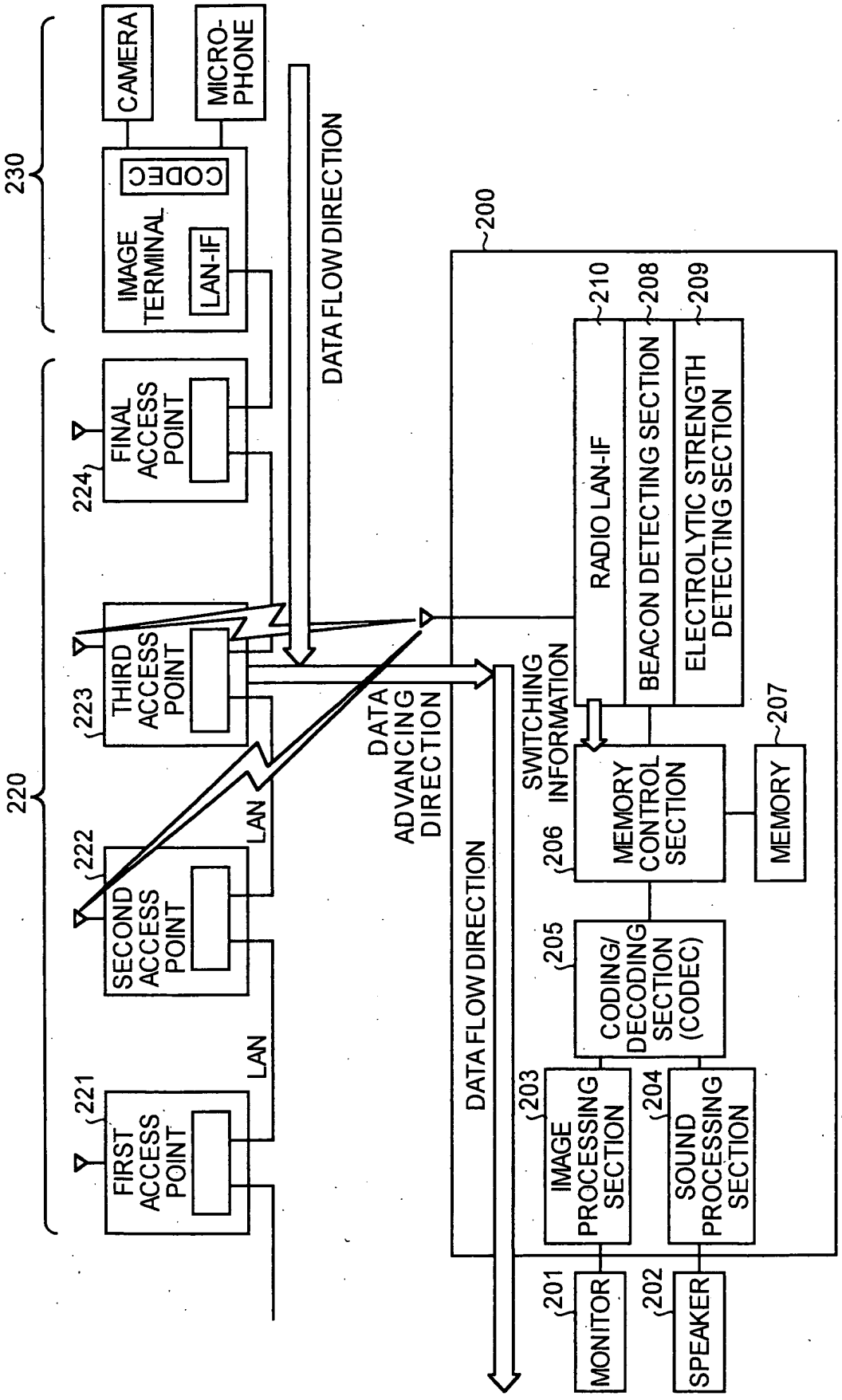

230
CAMERA
MICRO-PHONE
IMAGE TERMINAL
CODEC
LAN-IF
DATA FLOW DIRECTION
200
220
224
FINAL ACCESS POINT
223
THIRD ACCESS POINT
222
SECOND ACCESS POINT
221
FIRST ACCESS POINT
LAN
LAN
DATA ADVANCING DIRECTION
SWITCHING INFORMATION
RADIO LAN-IF
210
BEACON DETECTING SECTION
208
ELECTROLYTIC STRENGTH DETECTING SECTION
209
MEMORY CONTROL SECTION
206
MEMORY
207
CODING/ DECODING SECTION (CODEC)
205
DATA FLOW DIRECTION
IMAGE PROCESSING SECTION
203
SOUND PROCESSING SECTION
204
MONITOR
201
SPEAKER
202

FIG.26

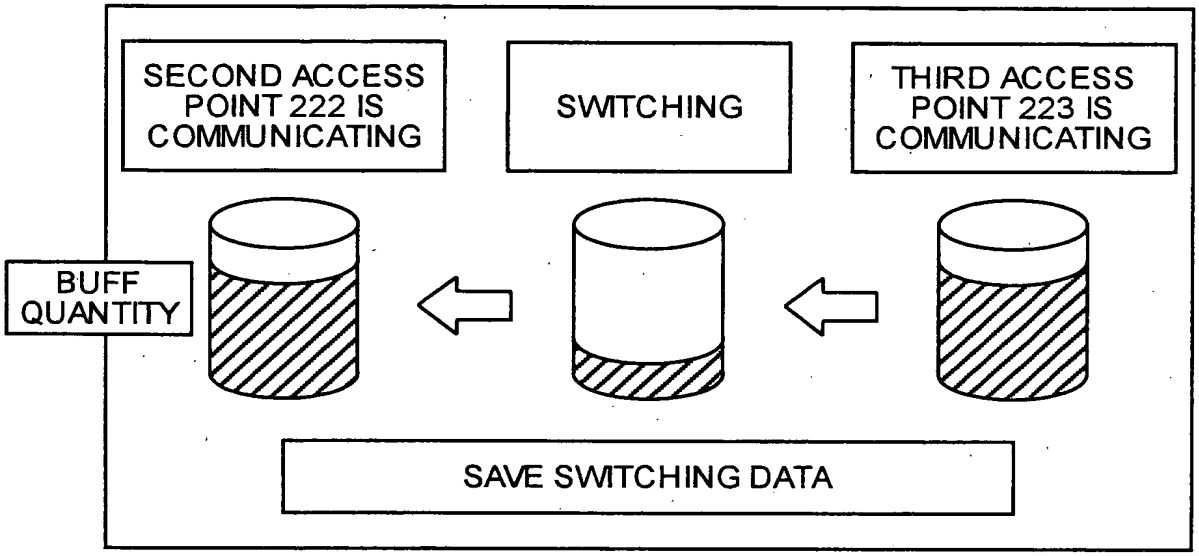

SECOND ACCESS POINT 222 IS COMMUNICATING
SWITCHING
THIRD ACCESS POINT 223 IS COMMUNICATING
BUFF QUANTITY
SAVE SWITCHING DATA

FIG.27

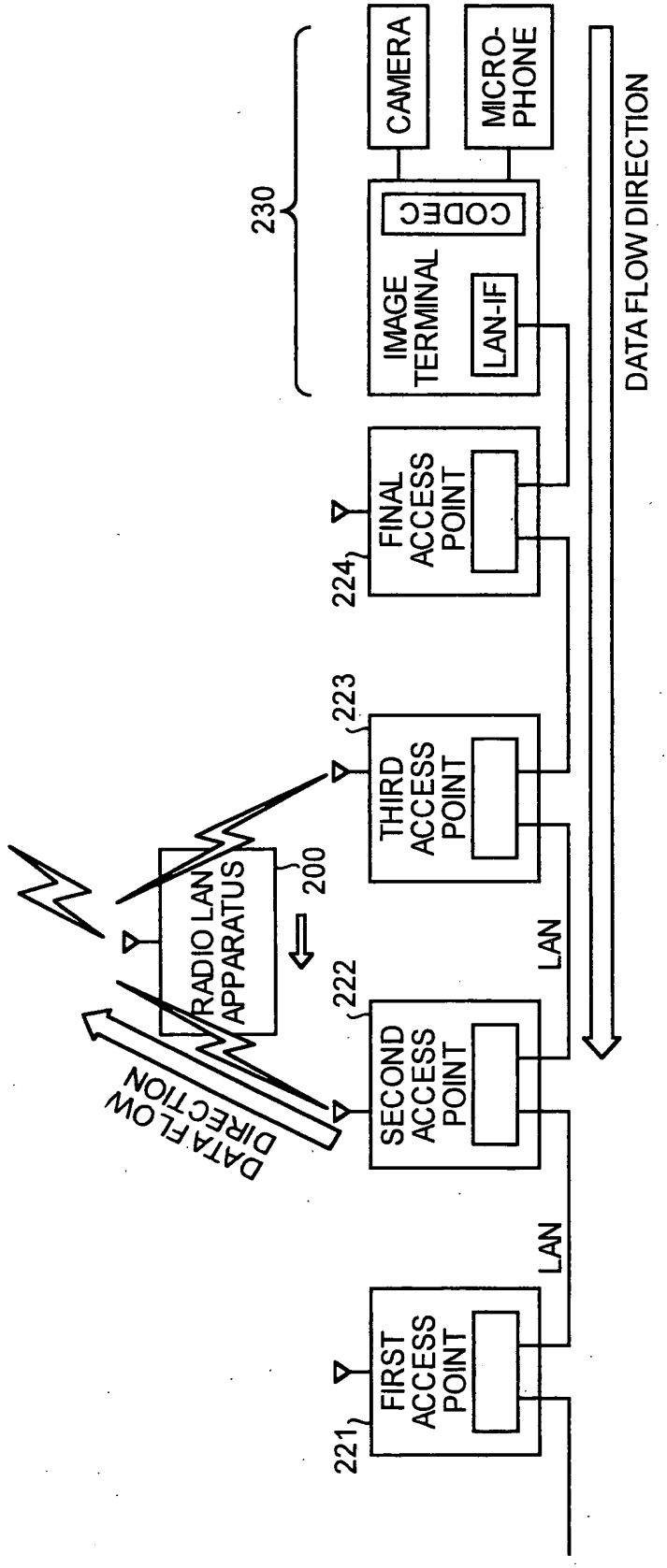

RADIO LAN APPARATUS
200
DATA FLOW DIRECTION
FIRST ACCESS POINT
221
SECOND ACCESS POINT
222
THIRD ACCESS POINT
223
FINAL ACCESS POINT
224
LAN
LAN
230
IMAGE TERMINAL
CODEC
LAN-IF
CAMERA
MICRO-PHONE
DATA FLOW DIRECTION

FIG.28

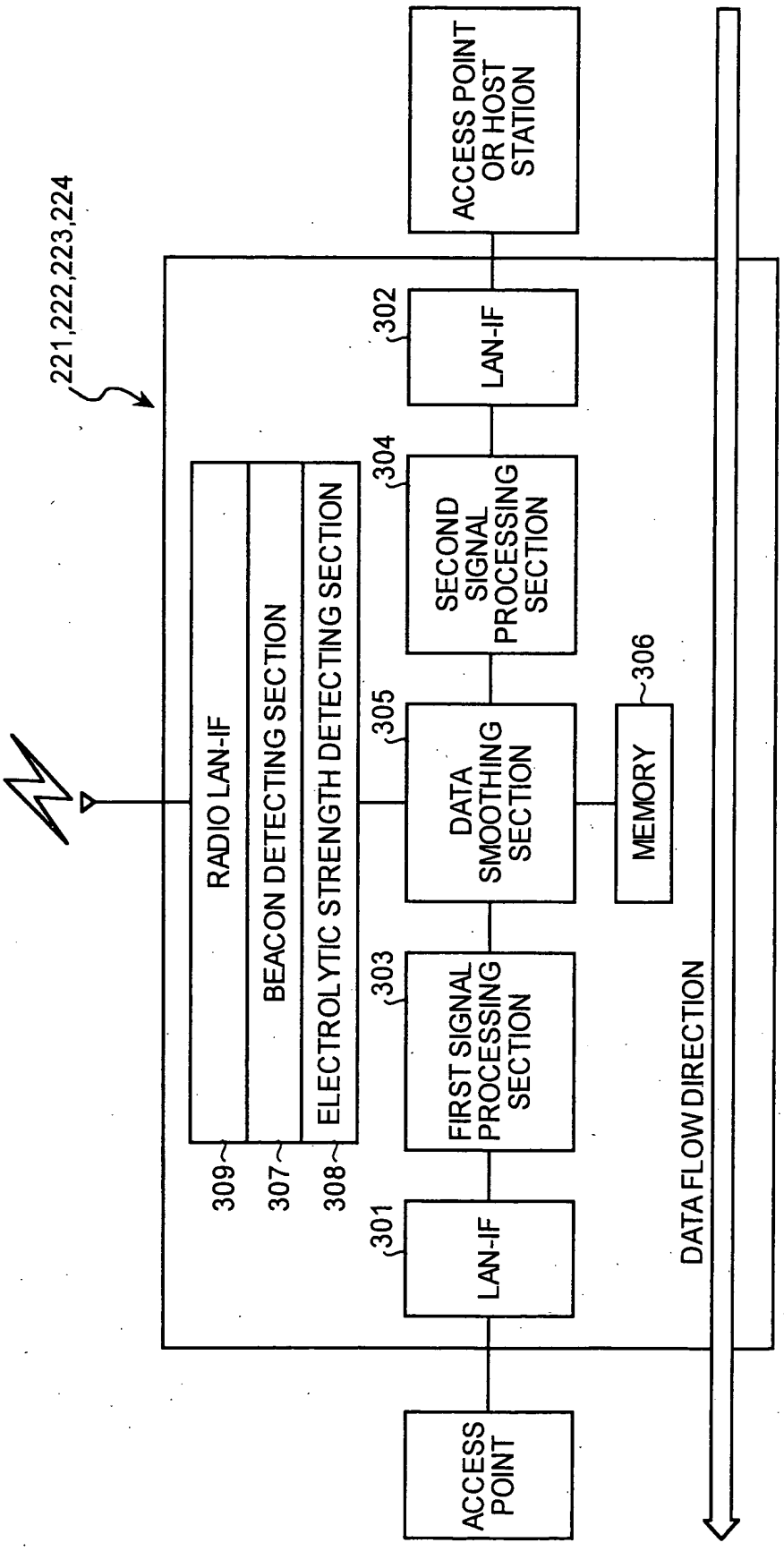

221,222,223,224
ACCESS POINT OR HOST STATION
302
LAN-IF
304
SECOND SIGNAL PROCESSING SECTION
RADIO LAN-IF
BEACON DETECTING SECTION
ELECTROLYTIC STRENGTH DETECTING SECTION
309
307
308
305
DATA SMOOTHING SECTION
306
MEMORY
303
FIRST SIGNAL PROCESSING SECTION
301
LAN-IF
ACCESS POINT
DATA FLOW DIRECTION

FIG.29

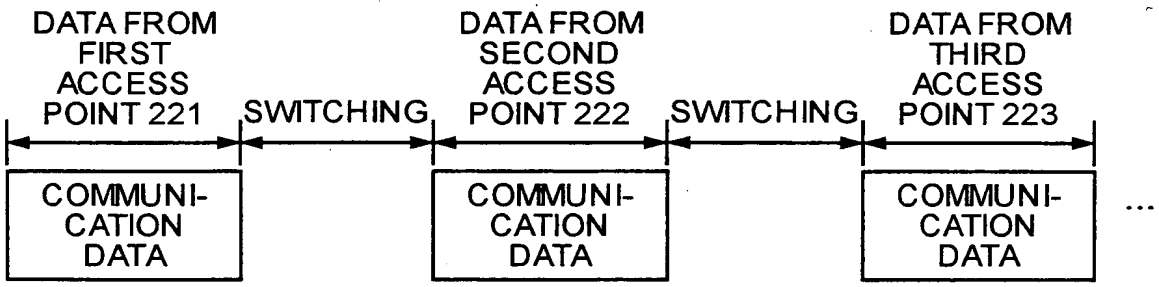

DATA FROM FIRST ACCESS POINT 221
SWITCHING
DATA FROM SECOND ACCESS POINT 222
SWITCHING
DATA FROM THIRD ACCESS POINT 223
COMMUNI-CATION DATA
COMMUNI-CATION DATA
COMMUNI-CATION DATA
...

FIG.30

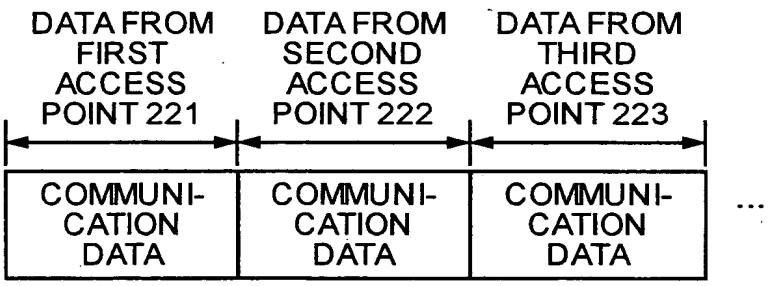
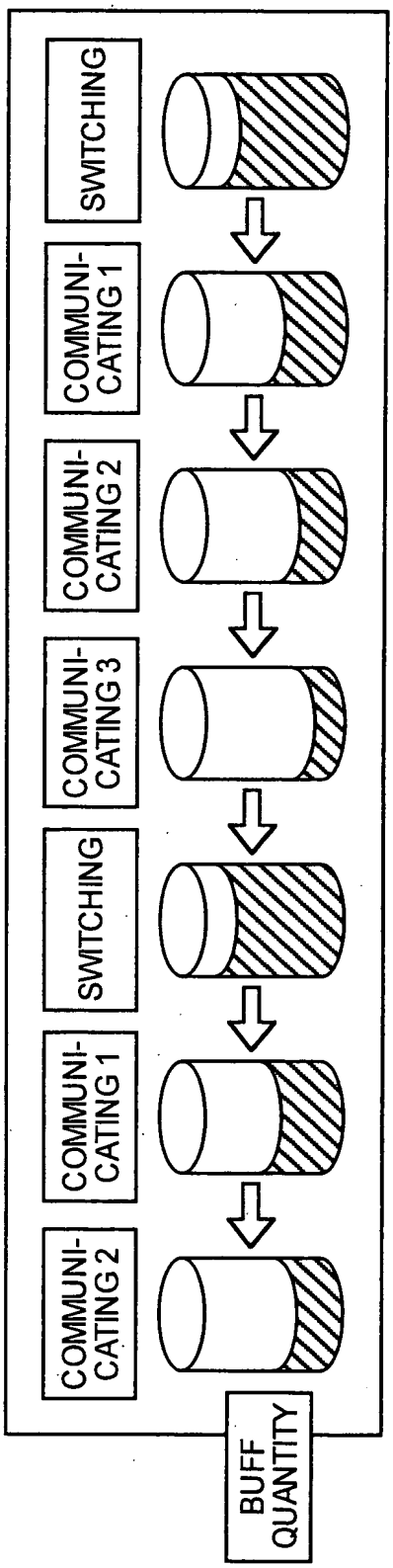

DATA FROM FIRST ACCESS POINT 221
DATA FROM SECOND ACCESS POINT 222
DATA FROM THIRD ACCESS POINT 223
COMMUNI-CATION DATA
COMMUNI-CATION DATA
COMMUNI-CATION DATA
...

FIG.31


BUFF QUANTITY
COMMUNI-CATING 2
COMMUNI-CATING 1
SWITCHING
COMMUNI-CATING 3
COMMUNI-CATING 2
COMMUNI-CATING 1
SWITCHING